IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-45. (Canceled)

46. (currently amended) A semiconductor device comprising:

a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:

a semiconductor film comprising crystalline silicon and having at least source and drain regions and a channel forming region;

a gate insulating film over the channel forming region; and

a gate electrode formed over the gate insulating film;

an interlayer insulating film formed over the first thin film transistor;

a conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor;

a color filter having a flattened surface formed over the interlayer insulating film and the conductive layer, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter and electrically connected to the conductive layer.

47. (currently amended) A semiconductor device comprising:

a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:

a semiconductor film comprising at least a channel forming region;

a gate insulating film adjacent to the channel forming region; and

a gate electrode adjacent to the gate insulating film,

an interlayer insulating film formed over the first thin film transistor;

a conductive layer formed over the interlayer insulating film and electrically connected to one of source and drain regions of the first thin film transistor;

a color filter having a flattened surface formed over the interlayer insulating film and the conductive layer, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter and electrically connected to the conductive layer.

48. (currently amended) A semiconductor device comprising:

a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:

a semiconductor film comprising crystalline silicon and having at least source and drain regions and a channel forming region;

a gate insulating film adjacent to the channel forming region; and

a gate electrode adjacent to the channel forming region with the gate insulating film interposed therebetween;

an interlayer insulating film formed over the first thin film transistor, the interlayer insulating film comprising at least a material selected from the group consisting of silicon nitride, silicon oxide and nitrated silicon oxide;

a color filter having a flattened surface formed over the interlayer insulating film, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter,

wherein the pixel electrode is electrically connected to the first thin film transistor.

49. (previously presented) A device according to claim 48, wherein the gate electrode is located over the channel forming region.

50-51. (Canceled).

- 52. (currently amended) A semiconductor device comprising:
- a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:

a semiconductor film comprising crystalline silicon and having at least source and drain regions and a channel forming region;

a gate insulating film adjacent to the channel forming region; and

a gate electrode formed adjacent to the channel forming region with the gate insulating film interposed therebetween;

- a first interlayer insulating film formed over the first thin film transistor;
- a conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor;
- a passivation film formed over the conductive layer, the passivation film comprising at least a material selected from the group consisting of silicon nitride, silicon oxide and nitrated silicon oxide;
- a color filter having a flattened surface formed over the passivation film, wherein the color filter covers the entire first thin film transistor; and
- a pixel electrode formed over the color filter and electrically connected to the conductive layer.

53. (previously presented) A device according to claim 52, wherein the gate electrode is located over the channel forming region.

54-55. (Canceled).

56. (currently amended) A semiconductor device comprising:

a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:

a semiconductor film comprising:

a channel forming region; and

a source region and a drain region in contact with the LDD regions;

a gate insulating film adjacent to the channel forming region; and

a gate electrode adjacent to the gate insulating film;

an interlayer insulating film formed over the first thin film transistor;

a conductive layer formed over the interlayer insulating film and electrically connected to one of source and drain regions of the first thin film transistor;

a color filter formed over the interlayer insulating film, the conductive layer and the first thin film transistor, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter and electrically connected to the conductive layer.

57. (currently amended) A semiconductor device comprising:

a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:

a semiconductor film comprising:

- a channel forming region; and
- a source region and a drain region in contact with the LDD regions;
- a gate insulating film adjacent to the channel forming region; and
- a gate electrode adjacent to the channel forming region with the gate insulating film interposed therebetween;
- an interlayer insulating film formed over the first thin film transistor, the interlayer insulating film comprising at least a material selected from the group consisting of silicon nitride, silicon oxide and nitrated silicon oxide;
- a color filter formed over the interlayer insulating film and the first thin film transistor, wherein the color filter covers the entire first thin film transistor; and
 - a pixel electrode formed over the color filter.
 - 58. (currently amended) A semiconductor device comprising:
- a first thin film transistor formed over an insulating surface, the first thin film transistor comprising:
 - a semiconductor film comprising:
 - a channel forming region; and
 - a source region and a drain region in contact with the LDD regions;
 - a gate insulating film adjacent to the channel forming region; and
- a gate electrode adjacent to the channel forming region with the gate insulating film interposed therebetween;
 - a first interlayer insulating film formed over the first thin film transistor;
- a conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor;

a passivation film formed over the conductive layer, the passivation film comprising at least a material selected from the group consisting of silicon nitride and nitrated silicon oxide;

a color filter formed over the passivation film and the first thin film transistor, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter and electrically connected to the conductive layer.

59. (currently amended) A semiconductor device comprising:

a first thin film transistor comprising:

- a semiconductor film comprising at least a channel forming region;
- a gate insulating film adjacent to the channel forming region; and
- a gate electrode adjacent to the channel forming region with the gate insulating film interposed therebetween;

an interlayer insulating film formed over the first thin film transistor;

a conductive layer formed over the interlayer insulating film and electrically connected to one of source and drain regions of the first thin film transistor;

a color filter formed over the interlayer insulating film, the conductive layer and the first thin film transistor, wherein the color filter covers the entire first thin film transistor; and a pixel electrode formed over the color filter and electrically connected to the conductive layer.

60. (currently amended) A semiconductor device comprising:

a first thin film transistor comprising:

a semiconductor film comprising silicon and having at least a channel forming region;

- a gate insulating film adjacent to the channel forming region; and
- a gate electrode adjacent to the channel forming region with the gate insulating film interposed therebetween;

an interlayer insulating film formed over the first thin film transistor, the interlayer insulating film comprising at least a material selected from the group consisting of silicon nitride, silicon oxide and nitrated silicon oxide;

a color filter formed over the interlayer insulating film and the first thin film transistor, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter.

- 61. (currently amended) A semiconductor device comprising:
 - a first thin film transistor comprising:
- a semiconductor film comprising silicon and having at least a channel forming region;
 - a gate insulating film adjacent to the channel forming region; and
- a gate electrode adjacent to the channel forming region with the gate insulating film interposed therebetween;
 - a first interlayer insulating film formed over the first thin film transistor;
- a conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor;
- a passivation film formed over the conductive layer, the passivation film comprising at least a material selected from the group consisting of silicon nitride and nitrated silicon oxide;
- a color filter formed over the passivation film and the first thin film transistor, wherein the color filter covers the entire first thin film transistor; and

a pixel electrode formed over the color filter and electrically connected to the conductive layer.

- 62. (previously presented) A device according to claim 56, wherein the semiconductor film comprises crystalline silicon.
- 63. (previously presented) A device according to claim 57, wherein the semiconductor film comprises crystalline silicon.
- 64. (previously presented) A device according to claim 58, wherein the semiconductor film comprises crystalline silicon.
- 65. (previously presented) A device according to claim 59, wherein the semiconductor film comprises crystalline silicon.
- 66. (previously presented) A device according to claim 60, wherein the semiconductor film comprises crystalline silicon.
- 67. (previously presented) A device according to claim 61, wherein the semiconductor film comprises crystalline silicon.
- 68. (previously presented) A device according to claim 46, wherein the semiconductor device further comprising:

a resin film over the color filter;

an electrode over the organic resin film; and

an oxide film of the electrode in direct contact with at least a portion of a surface of the electrode,

wherein the pixel electrode is in direct contact with at least a portion of the oxide film, and

wherein a storage capacitor comprises the electrode and the pixel electrode with the oxide film interposed therebetween.

69. (previously presented) A device according to claim 48, wherein the semiconductor device further comprising:

a resin film over the color filter;

an electrode over the organic resin film; and

an oxide film of the electrode in direct contact with at least a portion of a surface of the electrode,

wherein the pixel electrode is in direct contact with at least a portion of the oxide film, and

wherein a storage capacitor comprises the electrode and the pixel electrode with the oxide film interposed therebetween.

70. (previously presented) A device according to claim 52, wherein the semiconductor device further comprising:

a resin film over the color filter;

an electrode over the organic resin film; and

an oxide film of the electrode in direct contact with at least a portion of a surface of the electrode,

wherein the pixel electrode is in direct contact with at least a portion of the oxide film, and

wherein a storage capacitor comprises the first electrode and the pixel electrode with the oxide film interposed therebetween.

- 71. (previously presented) A device according to claim 46, wherein the semiconductor film further comprises LDD regions between the channel forming region and the source and drain regions.
- 72. (previously presented) A device according to claim 48, wherein the semiconductor film further comprises LDD regions between the channel forming region and the source and drain regions.
- 73. (previously presented) A device according to claim 52, wherein the semiconductor film further comprises LDD regions between the channel forming region and the source and drain regions.
- 74. (previously presented) A device according to claim 56, wherein the semiconductor film further comprises LDD regions between the channel forming region and the source and drain regions.
- 75. (previously presented) A device according to claim 57, wherein the semiconductor film further comprises LDD regions between the channel forming region and the source and drain regions.

76. (previously presented) A device according to claim 58, wherein the semiconductor film further comprises LDD regions between the channel forming region and the source and drain regions.

77. (previously presented) A device according to claim 46, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and wherein the pixel matrix circuit and the driver circuit are formed over an insulating surface.

78. (previously presented) A device according to claim 47, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and
wherein the pixel matrix circuit and the driver circuit are formed over an insulating
surface.

79. (previously presented) A device according to claim 48, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and
wherein the pixel matrix circuit and the driver circuit are formed over an insulating
surface.

80. (Canceled).

81. (previously presented) A device according to claim 52, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and

wherein the pixel matrix circuit and the driver circuit are formed over an insulating surface.

82. (Canceled).

83. (previously presented) A device according to claim 56, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and wherein the pixel matrix circuit and the driver circuit are formed over an insulating surface.

84. (previously presented) A device according to claim 57, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and
wherein the pixel matrix circuit and the driver circuit are formed over an insulating
surface.

85. (previously presented) A device according to claim 58, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and wherein the pixel matrix circuit and the driver circuit are formed over an insulating surface.

86. (previously presented) A device according to claim 59, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and wherein the pixel matrix circuit and the driver circuit are formed over an insulating surface.

87. (previously presented) A device according to claim 60, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and wherein the pixel matrix circuit and the driver circuit are formed over an insulating surface.

88. (previously presented) A device according to claim 61, further comprising a driver circuit comprising a second thin film transistor,

wherein the first thin film transistor is included in a pixel matrix circuit, and
wherein the pixel matrix circuit and the driver circuit are formed over an insulating
surface.

- 89. (New) A device according to claim 46, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
 - 90. (New) A device according to claim 47, wherein the semiconductor device is

selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.

- 91. (New) A device according to claim 48, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
- 92. (New) A device according to claim 52, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
- 93. (New) A device according to claim 56, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
- 94. (New) A device according to claim 57, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
 - 95. (New) A device according to claim 58, wherein the semiconductor device is

selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.

- 96. (New) A device according to claim 59, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
- 97. (New) A device according to claim 60, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
- 98. (New) A device according to claim 61, wherein the semiconductor device is selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a player that uses a recording medium, a camera, a projector, a portable telephone, a portable book and a display device.
- 99. (New) A device according to claim 46 wherein said color filter has a flat upper surface.
- 100. (New) A device according to claim 47 wherein said color filter has a flat upper surface.

- 101 (New) A device according to claim 48 wherein said color filter has a flat upper surface.
- 102. (New) A device according to claim 52 wherein said color filter has a flat upper surface.
- 103. (New) A device according to claim 56 wherein said color filter has a flat upper surface.
- 104. (New) A device according to claim 57 wherein said color filter has a flat upper surface.
- 105. (New) A device according to claim 58 wherein said color filter has a flat upper surface.
- 106. (New) A device according to claim 59 wherein said color filter has a flat upper surface.
- 107. (New) A device according to claim 60 wherein said color filter has a flat upper surface.
- 108. (New) A device according to claim 61 wherein said color filter has a flat upper surface.
 - 109. (New) A device according to claim 46 wherein said color filter has an opening

through which said pixel electrode is electrically connected to the conductive layer.

- 110. (New) A device according to claim 47 wherein said color filter has an opening through which said pixel electrode is electrically connected to the conductive layer.
- 111. (New) A device according to claim 48 wherein said color filter has an opening through which said pixel electrode is electrically connected to the first thin film transistor.
- 112. (New) A device according to claim 52 wherein said color filter has an opening through which said pixel electrode is electrically connected to the conductive layer.
- 113. (New) A device according to claim 56 wherein said color filter has an opening through which said pixel electrode is electrically connected to the conductive layer.
- 114. (New) A device according to claim 57 wherein said color filter has an opening through which said pixel electrode is electrically connected to the first thin film transistor.
- 115. (New) A device according to claim 58 wherein said color filter has an opening through which said pixel electrode is electrically connected to the conductive layer.
- 116. (New) A device according to claim 59 wherein said color filter has an opening through which said pixel electrode is electrically connected to the conductive layer.
- 117. (New) A device according to claim 60 wherein said color filter has an opening through which said pixel electrode is electrically connected to the thin film transistor.

118. (New) A device according to claim 61 wherein said color filter has an opening through which said pixel electrode is electrically connected to the conductive layer.